5

Having thus described the preferred embodiments, the invention is now claimed to be:

A golf ball comprising:

a core having one or more layers; and

one or more high-density regions interiorly disposed along a common plane in at least one of the core layers of the golf ball and centered about the horizontal spin axis of the ball.

- The golf ball of claim 1, wherein the one or more high-density regions comprise a continuous or discontinuous band of high-density material positioned along the gyroscopic center plane of the golf ball.
  - The golf ball of claim 2, wherein the band is disposed in the outer layer of the core along a longitudinal axis which is perpendicular to the ball's spin axis.
- The golf ball of claim 2, wherein said band comprises two or
   more equally segmented parts radially disposed along a common plane.
  - The golf ball of claim 1, wherein the cover is formed from a material selected from a translucent or transparent cover material, and further wherein the high-density regions are visible to a golfer through said cover.
- 6. The golf ball of claim 1, wherein the high-density regions are not visible to a golfer through the cover, the cover further comprising one or more markings, said markings providing a visible indicia of at least one of: (i) the gyroscopic center plane of the ball; and (2) a spin axis of the ball, the spin axis being perpendicular to the center plane and passing through a center of the ball.
- 7. The golf ball of claim 2, wherein said band comprises three or more equally segmented parts radially disposed along a common plane.

10

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- The golf ball of claim 2, wherein the band comprises from 2 to
   equally spaced segments.
- 9. The golf ball of claim 8, wherein the segments comprise highdensity members which are radially equally spaced apart about a spin axis of the golf ball, and wherein each segment is located within the golf ball an equal distance from the spin axis.
- 10. The golf ball of claim 2, wherein said band comprises five or more equally segmented parts radially disposed along a common plane and equal distance from the spin axis;

the cover comprises one or more cover layers; and
the one or more high-density regions comprise at least one
continuous or discontinuous band of high-density material formed in at least one
core layer.

## A golf ball comprising:

- a core, said core defining at least one hollow channel extending around the longitudinal axis of the core perpendicular to the ball's spin axis; and at least one high-density region disposed in said hollow channel.
- The golf ball of claim 11, wherein the high density region has a density of 1.2 or more.

13. The golf ball of claim 11, wherein said high density region comprises a density-adjusting filler.

- The golf ball of claim 11, wherein said high density region comprises a continuous or discontinuous band of high density material.
- 25 The golf ball of claim 14, wherein the band comprises two or

more equally segmented parts radially disposed along a common plane.

- The golf ball of claim 11, wherein the core comprises a multilayer core.
- The golf ball of claim 11, wherein the high density region comprises a continuous metal band having a density of greater than 1.2.
  - 18. The golf ball of claim 11, wherein the high density region comprises a continuous band of metallic material comprising brass, steel, copper, iron, tungsten, bronze, nickel, stainless steel, titanium, aluminum and molybdenum.
- A golf ball having a controlled weight distribution about the ball's horizontal spin axis comprising:
  - a core having a high density region interiorly disposed within the extension perimeter of the core along the ball's gyroscopic center plane and about the ball's spin axis.
  - 20. The golf ball of claim 19, wherein said high density region of said core defines a channel disposed on the longitudinal axis of the exterior perimeter of the core and about the spin axis of the ball; and

further comprising a cover enclosing the core.

15